

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A conductor for liquid-cooled windings, ~~in particular for transformer windings, having~~ comprising an insulating sheathing which surrounds the conductor as a whole, ~~in which case wherein~~ at least one layer of the sheathing surrounds the conductor so as to cover it completely, ~~characterized in that and wherein~~ an outer layer-(3) of at least two layers-(2, 3) of the sheathing has openings-(4), meshes-(5) or frayed sections.

2. (Currently Amended) ~~The~~ A conductor as ~~claimed in according to~~ claim 1, ~~characterized in that wherein~~ at least one, ~~preferably each~~ layer-(2, 3) of the sheathing is formed by being wound around the conductor-(1).

3. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in either of claims 1 and 2, characterized in that~~ at least one layer-(2, 3) of the sheathing, ~~preferably at least each layer-(2)~~ apart from the outer layer-(3) is made from paper.

4. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 3, characterized in that~~ the outer layer-(3) is made from perforated paper.

5. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 3, characterized in that~~ the outer layer-(3) is formed by a tape which is slit at regular intervals at one edge so as to form lugs protruding at the edge, said tape ~~preferably~~ being made from paper.

6. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 3, characterized in that~~ the outer layer-(3) is formed by a net or woven fabric, which is ~~preferably~~ made from a plastic.

7. (Currently Amended) A conductor according to claim 6, wherein ~~The conductor as claimed in claim 6, characterized in that the net or the woven fabric has individual meshes (5) having a diameter of between 1 mm and 15 mm, preferably or between 1.5 mm and 5 mm.~~

8. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 7, characterized in that the outer layer (3) has openings (4) having a diameter of between 2 mm and 10 mm, preferably or between 3 mm and 7 mm.~~

9. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 8, characterized in that the outer layer (3) covers a proportion of between 30% and 80% of the layer (2) lying therebeneath.~~

10. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 9, characterized in that, owing to the layer (2) or layers (2), which completely cover(s) the conductor, of the sheathing, a coating having a thickness of between 0.1 mm and 2 mm, preferably or between 0.2 mm and 1 mm, is formed.~~

11. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 10, characterized in that the conductor it comprises a plurality of individual conductor elements, preferably between five and one hundred and ninety-eight individual conductor elements.~~

12. (Currently Amended) A conductor according to claim 1, wherein ~~The conductor as claimed in one of claims 1 to 11, characterized in that it the conductor has a preferably rectangular cross section of between 0.2 cm² and 40 cm².~~

13. (Currently Amended) A liquid-cooled transformer or liquid-cooled inductor coil containing at least one winding comprising a conductor as ~~claimed in one of claims 1 to 12~~ according to Claim 1.

14. (Currently Amended) ~~The~~ A transformer or inductor coil as claimed in claim 13, characterized in that wherein an oil surrounding the conductor, preferably mineral oil, or an ester liquid surrounding the conductor it is provided as the coolant.

15. (NEW) A conductor according to claim 1, wherein each layer of the sheathing is formed by being wound around the conductor.
16. (NEW) A conductor for liquid-cooled transformer windings comprising an insulating sheathing which surrounds the conductor, wherein at least one layer of the sheathing completely surrounds the conductor, and an outer layer of at least two layers of the sheathing has openings, meshes or frayed sections.
17. (NEW) A conductor according to claim 16, wherein at least one of the sheathing is formed by being wound around the conductor.
18. (NEW) A conductor according to claim 16, wherein at least one layer of the sheathing apart from the outer layer is made from paper.
19. (NEW) A conductor according to claim 16, wherein the outer layer is formed by a tape which is slit at regular intervals at one edge so as to form lugs protruding at the edge, said tape being made from paper.
20. (NEW) A conductor according to claim 1, wherein the outer layer is formed by a net or woven fabric, which is made from a plastic.